Appendix A

Table: Capacity of a DWDM-expanded WDM Channel

Number of DWDM signals in a WDM channel	DWDM channel spacing [GHz]	maximum Bit-Rate [Gb/s]	WDM channel capacity [Gb/s]
16	100	10	160
32	50	10	320
64	25	2.5	160

Appendix B

Table: Broadcasting of WDM Channels

Figure	Input	Drop1 2B	BTB1 150B	Drop-C1 4B	Bus1 100B	Drop2 12B	BTB2 150D	Drop-C2 14B	Bus2 100D
11A	App1 - 4A			X	X				
11A	App2 -14A							X	X
11A	Add1,2 2A/12A		X						
			X	X	X				
							X		
							X	X	X
11B	Bus 1 100A	X							
			X						
				X	X				
			X	X	X				
							X		
							X	X	X
11B	Bus 2 100C					X			
							X		
								X	X
							X	X	X
			X						
			X	X	X				
11C	BTB1 protection 150A	X							
			X						
			X	X	X				
					X				
							X		
							X	X	X
									X
11C	BTB2 protection 150C					X			
							X		
							X	X	X
									X
			X						
			X	X	X				

Appendix C

Table: Capacity of a DWDM-expanded WDM Multi-Bus Network

Number of WDM channels	Number of DWDM signals in a WDM channel	DWDM channel spacing [GHz]	Maximum Bit-Rate [Gb/s]	WDM channel capacity [Gb/s]	Total capacity of a single-bus network [Tb/s]
2	16	100	10	160	0.36
2	32	50	10	320	0.64
2	64	25	2.5	160	0.36
4	16	100	10	160	0.64
4	32	50	10	320	1.28
4	64	25	2.5	160	0.64
6	16	100	10	160	0.96
6	32	50	10	320	1.92
6	64	25	2.5	160	0.96
8	16	100	10	160	1.28
8	32	50	10	320	2.56
8	64	25	2.5	160	1.28
10	16	100	10	160	1.60
10	32	50	10	320	3.20
10	64	25	2.5	160	1.60
12	16	100	10	160	1.92
12	32	50	10	320	3.84
12	64	25	2.5	160	1.92
14	16	100	10	160	2.24
14	32	50	10	320	4.48
14	64	25	2.5	160	2.24
16	16	100	10	160	2.56
16	32	50	10	320	5.12
16	64	25	2.5	160	2.56

					X				
11D	BTB1,2 service 150A/150C	X							
						X			
		X				X			
			X	X					
								X	X
			X	X				X	X
			X						
						X			
			X			X			
			X	X	X				
							X	X	X
			X	X	X		X	X	X

Appendix B (continue)